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TECH CENTER 1600/2900

D. Johnson

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/525,361DATE: 04/24/2001
TIME: 13:18:49Input Set : A:\A67860-3.app
Output Set: N:\CRF3\04242001\I525361.raw

P. S

3 <110> APPLICANT: MACK, DAVID
 4 GISH, KURT
 6 <120> TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSING AND TREATING BREAST CANCER,
 7 COMPOSITIONS, AND METHODS OF SCREENING FOR BREAST
 8 CANCER MODULATORS
 10 <130> FILE REFERENCE: A-67860-3/DJB/JJD
 12 <140> CURRENT APPLICATION NUMBER: US 09/525,361
 13 <141> CURRENT FILING DATE: 2000-03-15
 15 <150> PRIOR APPLICATION NUMBER: US 09/268,865
 16 <151> PRIOR FILING DATE: 1999-03-15
 18 <150> PRIOR APPLICATION NUMBER: US 09/450,810
 19 <151> PRIOR FILING DATE: 1999-11-29
 21 <150> PRIOR APPLICATION NUMBER: US 09/453,137
 22 <151> PRIOR FILING DATE: 1999-12-02
 24 <150> PRIOR APPLICATION NUMBER: US 09/439,878
 25 <151> PRIOR FILING DATE: 1999-11-12
 27 <150> PRIOR APPLICATION NUMBER: US 09/440,370
 28 <151> PRIOR FILING DATE: 1999-11-12
 30 <150> PRIOR APPLICATION NUMBER: US 09/440,493
 31 <151> PRIOR FILING DATE: 1999-11-15
 33 <150> PRIOR APPLICATION NUMBER: US 09/520,478
 34 <151> PRIOR FILING DATE: 2000-03-08
 36 <150> PRIOR APPLICATION NUMBER: US 09/440,676
 37 <151> PRIOR FILING DATE: 1999-11-16
 39 <150> PRIOR APPLICATION NUMBER: US 09/440,677
 40 <151> PRIOR FILING DATE: 1999-11-16
 42 <160> NUMBER OF SEQ ID NOS: 53
 44 <170> SOFTWARE: PatentIn Ver. 2.1
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 47 <211> LENGTH: 3264
 48 <212> TYPE: DNA
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 54 cctacttcag ccccttggtg tgagcagctt ctcaacatga actacagctt ccacttggcc 180
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 59 cgacagcgct ggtatggacca gcccgtgggt tttgaaggca acaagagctt cactctggat 480
 60 gcccgcctcg tggaggctt ctgggtgccaa gataacttaca ttgtggagtc caagaagtcc 540
 61 ttctccatg aagtcaactgt gggaaacagg ctcatccgccc tcttctccaa tggcacggtc 600
 62 ctgtatgccc tcagaatcac gacaactgtt gcatgttaaca tggatctgtc taaataccctc 660
 63 atggacacac agacatgcaa gttcagctg gaaagctggg gctatgtatgg aaatgtatgtg 720
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 65 cagtacacca tagagcggtt tttcacctt gtcaccagat cgcagcaggaa 840

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120 gcacaacaaga gcttcactctggatgcccgcctcgaggatccctctgggt gccagatact 360
121 tacattgtgg agtccaagaa gtccttcctc catgaagtca ctgtggaaa caggctcatc 420
122 cgcctcttctccaatggcac ggtcctgtat gcccctcagaa tcacgacaac tggtgcgt 480
123 aacatggatctgtctaaataccccatggac acacagacat gcaagttca gctggaaagc 540
124 tggggctatgatggaaatgatgtggagttacctggctga gagggAACGA ctctgtgcgt 600
125 gactggAACACCTGCGCTTGCTCAGTACACCATAGAGC GGTATTTACCTTAGTCACC 660
126 agatcgcagcaggagacaggaaattacactagattggcttacatgttga gcttcggagg 720
127 aatgttctgtatttcatttggaaacctac gttccttcca ctttcctgtt ggtgttgc 780
128 tgggttcattttgatctcttcgtcattca gtcctcgtcaa gAACCTGCAT tggagtgacg 840
129 accgtgttatcaatgaccacactgatgatcgggtcccgcac tttcttcc caacaccaac 900
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134 agtgaacttacaatgaaaac cagcgacaagttcaagttgtttccgaga aaagatgggc 1200
135 aggattgttattatccatcaattcaaaaccccagtaatgttgatactatccaaacta 1260
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137 tga 1323

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141 <211> LENGTH: 440

142 <212> TYPE: PRT

143 <213> ORGANISM: Homo sapiens

145 <400> SEQUENCE: 3

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150 20 25 30
152 Ser Asp Lys Leu Ser Leu Pro Gly Phe Glu Asn Leu Thr Ala Gly Tyr
153 35 40 45
155 Asn Lys Phe Leu Arg Pro Asn Phe Gly Gly Glu Pro Val Gln Ile Ala
156 50 55 60
158 Leu Thr Leu Asp Ile Ala Ser Ile Ser Ser Ile Ser Glu Ser Asn Met
159 65 70 75 80
161 Asp Tyr Thr Ala Thr Ile Tyr Leu Arg Gln Arg Trp Met Asp Gln Arg
162 85 90 95
164 Leu Val Phe Glu Gly Asn Lys Ser Phe Thr Leu Asp Ala Arg Leu Val
165 100 105 110
167 Glu Phe Leu Trp Val Pro Asp Thr Tyr Ile Val Glu Ser Lys Lys Ser
168 115 120 125
170 Phe Leu His Glu Val Thr Val Gly Asn Arg Leu Ile Arg Leu Phe Ser
171 130 135 140
173 Asn Gly Thr Val Leu Tyr Ala Leu Arg Ile Thr Thr Val Ala Cys
174 145 150 155 160
176 Asn Met Asp Leu Ser Lys Tyr Pro Met Asp Thr Gln Thr Cys Lys Leu
177 165 170 175
179 Gln Leu Glu Ser Trp Gly Tyr Asp Gly Asn Asp Val Glu Phe Thr Trp
180 180 185 190

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183 195 200 205
185 Gln Tyr Thr Ile Glu Arg Tyr Phe Thr Leu Val Thr Arg Ser Gln Gln
186 210 215 220
188 Glu Thr Gly Asn Tyr Thr Arg Leu Val Leu Gln Phe Glu Leu Arg Arg
189 225 230 235 240
191 Asn Val Leu Tyr Phe Ile Leu Glu Thr Tyr Val Pro Ser Thr Phe Leu
192 245 250 255
194 Val Val Leu Ser Trp Val Ser Phe Trp Ile Ser Leu Asp Ser Val Pro
195 260 265 270
197 Ala Arg Thr Cys Ile Gly Val Thr Thr Val Leu Ser Met Thr Thr Leu
198 275 280 285
200 Met Ile Gly Ser Arg Thr Ser Leu Pro Asn Thr Asn Cys Phe Ile Lys
201 290 295 300
203 Ala Ile Asp Val Tyr Leu Gly Ile Cys Phe Ser Phe Val Phe Gly Ala
204 305 310 315 320
206 Leu Leu Glu Tyr Ala Val Ala His Tyr Ser Ser Leu Gln Gln Met Ala
207 325 330 335
209 Ala Lys Asp Arg Gly Thr Thr Lys Glu Val Glu Val Ser Ile Thr
210 340 345 350
212 Asn Ile Ile Asn Ser Ser Ile Ser Ser Phe Lys Arg Lys Ile Ser Phe
213 355 360 365
215 Ala Ser Ile Glu Ile Ser Ser Asp Asn Val Asp Tyr Ser Asp Leu Thr
216 370 375 380
218 Met Lys Thr Ser Asp Lys Phe Lys Phe Val Phe Arg Glu Lys Met Gly
219 385 390 395 400
221 Arg Ile Val Asp Tyr Phe Thr Ile Gln Asn Pro Ser Asn Val Asp His
222 405 410 415
224 Tyr Ser Lys Leu Leu Phe Pro Leu Ile Phe Met Leu Ala Asn Val Phe
225 420 425 430
227 Tyr Trp Ala Tyr Tyr Met Tyr Phe
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232 <211> LENGTH: 15
233 <212> TYPE: PRT
234 <213> ORGANISM: Artificial Sequence
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237 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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241 1 5 10 15
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245 <211> LENGTH: 15
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 265 tgcggacgc agggcgctgg gccgggttgc ggctcggcc acagttttt ttctcaaggt 180
 266 gcaatgaaag cttccacac tttctgtgtt gtcctctgg tttttggag tgctctgaa 240
 267 gccaagttt atgatttga ggtatggagg gacatagtag agtatgtga taatgactc 300
 268 gctgaattttt aggtatgtcat ggaagactct gttactaat ctcctcaacg ggtcataatc 360
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 271 gaagaattttt aaggttatga agacaaacca gatacttctt ctagcaaaaa taaagaccca 540
 272 ataacgattt ttgatgttcc tgcacaccc cagaacagct gggagagttt ttatcttagaa 600
 273 attttgatgg tgactggctc gcttgcattt atcatgaatt acatcatgg gaagaataaa 660
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 294 tattttgattt attttataaa aggaatgtatc tatgaaatct gtgttagttt taaatatttt 1920
 295 aaaaattata atacaatca tcaatgtctt tagtacttca gtgtttaaaag aaataccatg 1980
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 305 ctgtgtggccg ttgcttctcc ctctgtttt atctttccatg ctttttttttttgc ttgaaatggaa 2580

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
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L:1175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:1796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1883 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:2652 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53